

*Introduction to the
United States Coast Guard
Integrated Deepwater
System Program*



...Now More Critical than Ever

A Deepwater Legacy



Since 1790, the Coast Guard has unfailingly provided vital services and benefits to the United States because of its distinctive blend of humanitarian, law-enforcement, diplomatic, and military capabilities. Deepwater assets defend the nation's sovereignty and national security in America's ports and coastal waters as well as offshore.



Coast Guard Mission Areas



Coastal



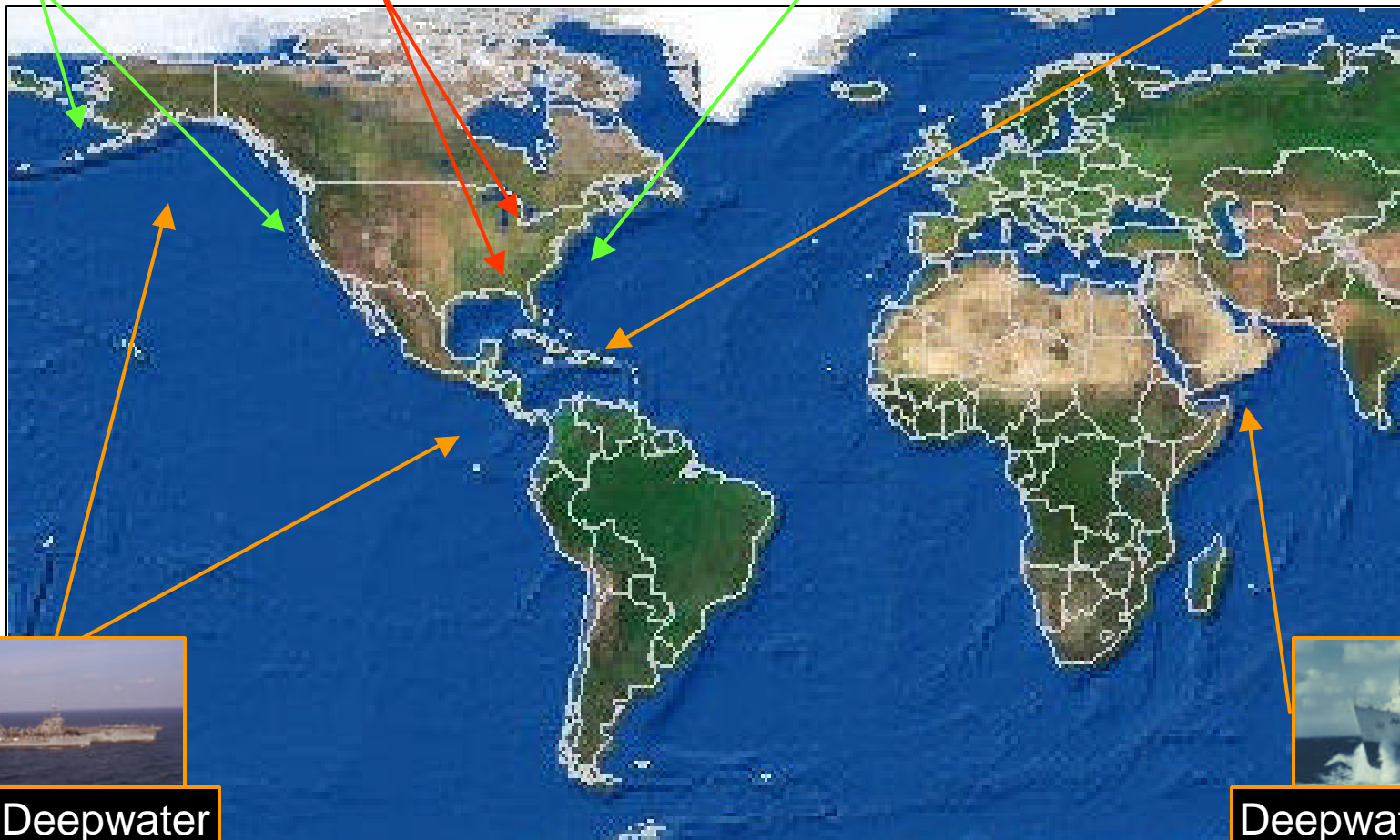
Inland



Coastal



Deepwater



Deepwater



Deepwater

Nationally Mandated Missions



Maritime Safety

Search and Rescue
International Ice Patrol

Maritime Mobility

Lightering Zone Enforcement
Foreign Vessel Inspection

Maritime Security

Drug Interdiction
General Enforcement of Laws and Treaties
Alien Migrant Interdiction

National Defense

Homeland Security
General Defense Operations
Maritime Interception Operations
Military Environmental Defense Operations
Port Operations, Security, & Defense
Peacetime Military Engagement
Coastal Sea Control

Protection of Natural Resources

Marine Pollution Enforcement & Response
Living Marine Resource Enforcement

Maritime Safety



SEARCH AND RESCUE



“When the SAR Alarm Goes Off, We’re Always There”



DRUG INTERDICTION

Coast Guard Impact (Fiscal Year 2001):

- Seized 138,393 lbs. of Cocaine
- Seized 34,520 lbs. of Marijuana
- \$4.5 Billion of Drugs Interdicted

Maritime Security



ALIEN MIGRATION INTERDICTION

- Estimated that over 30,000 people illegally migrate to the western hemisphere every year
- \$10-30,000 per migrant to send them back to their country of origin if they reach our shores.

“As the gap between the ‘haves’ and the ‘have nots’ widens, there will be increasing occurrence of illegal migrants attempting to reach our shores.”



Protection of Natural Resources

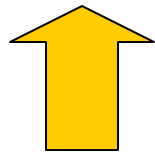


LIVING MARINE RESOURCE ENFORCEMENT

Edible fish products

Demand

(Tons)



1998

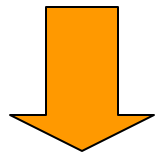
80,000,000

2015

115,000,000

Availability

Atl. NW (Tons)



Max Harvest

2,500,000

Most Recent

1,000,000



Maritime Mobility



FOREIGN VESSEL INSPECTION

- In 1997, some 90 % of U.S. foreign trade by tonnage - valued at nearly \$1.7 trillion - moved by ship, most of it in vessels flying the flags of other countries.
- On average, 14 foreign vessels enter/depart U.S. ports for every U.S. vessel on an international voyage.



National Defense

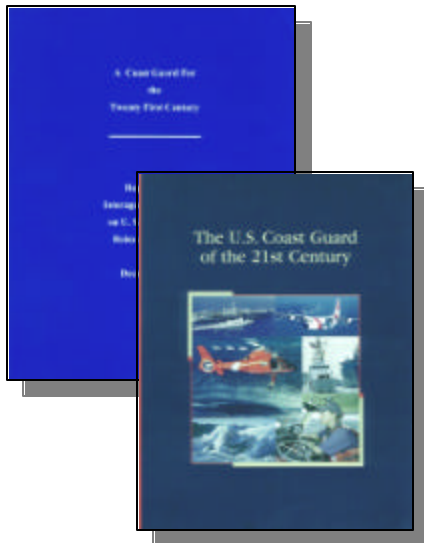
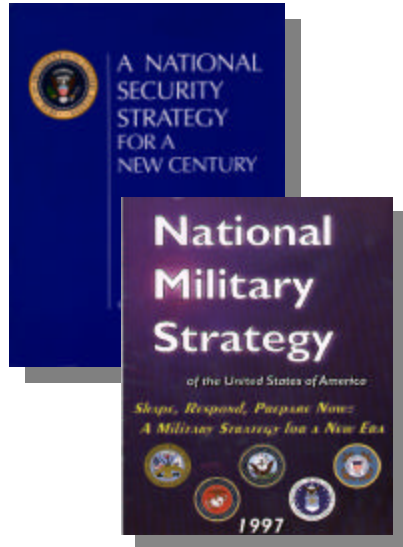


Unique Instrument of National Security

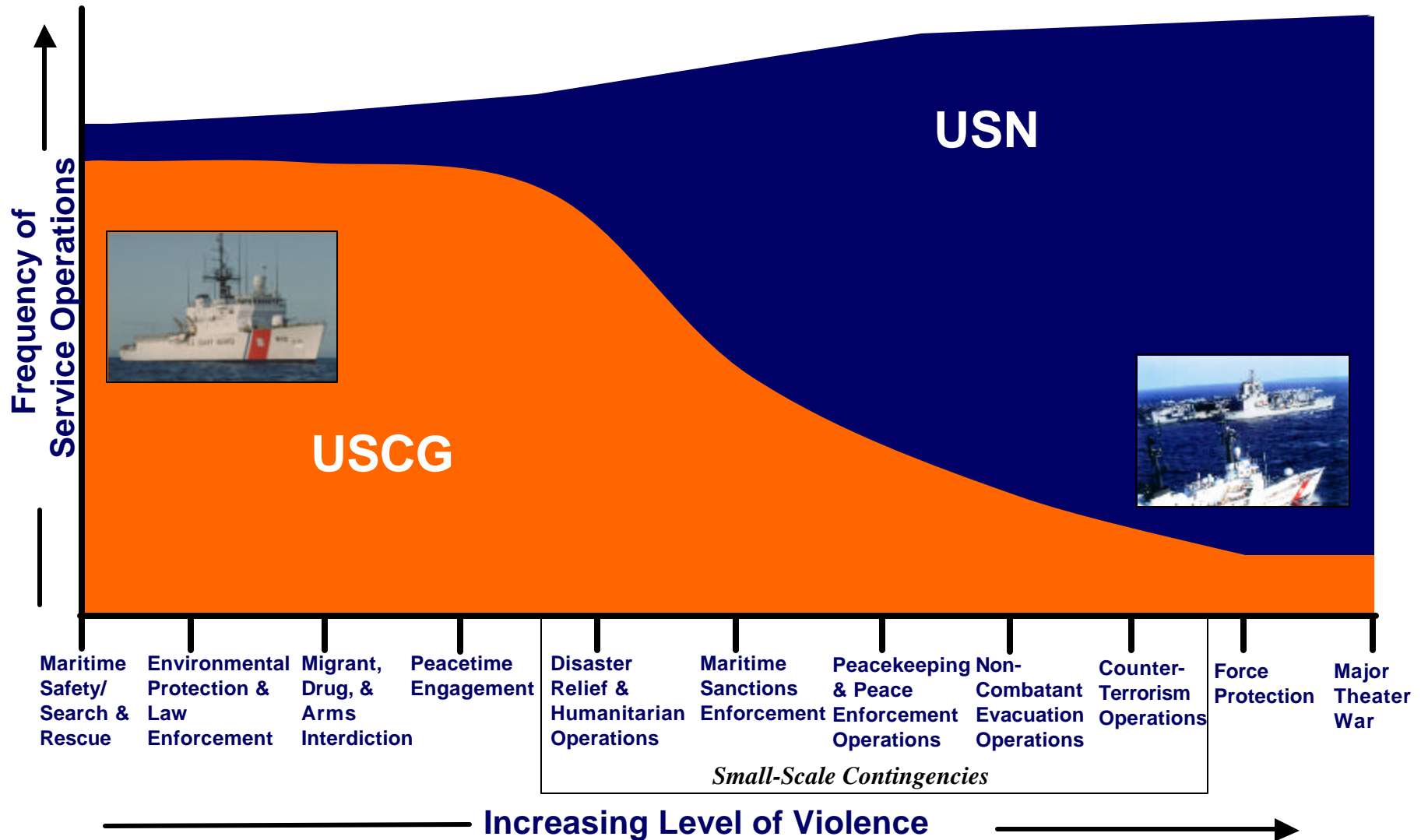
- Military capabilities blended with law enforcement authorities and an international humanitarian reputation
- Relevant, non-redundant, complementary and interoperable capabilities that support the National Military Strategy

Shaping the International Environment

- Maritime presence & port visits
- Training teams, exercises & combined operations
- Personnel exchanges
- Information sharing & military-to-military contacts



Full Spectrum of Operations



Interoperability: National Fleet



“The Navy and Coast Guard will work together to build a National Fleet of multi-mission surface combatants, major cutters, patrol boats, and aircraft to maximize our effectiveness across all naval and maritime missions.

The Navy and Coast Guard will coordinate resource planning, information systems integration, and research and development, as well as expand joint concepts of operations, logistics, training, exercises, and deployments.

The Coast Guard and Navy will work together to acquire and maintain forces that mutually support and complement each Service’s roles and missions.”

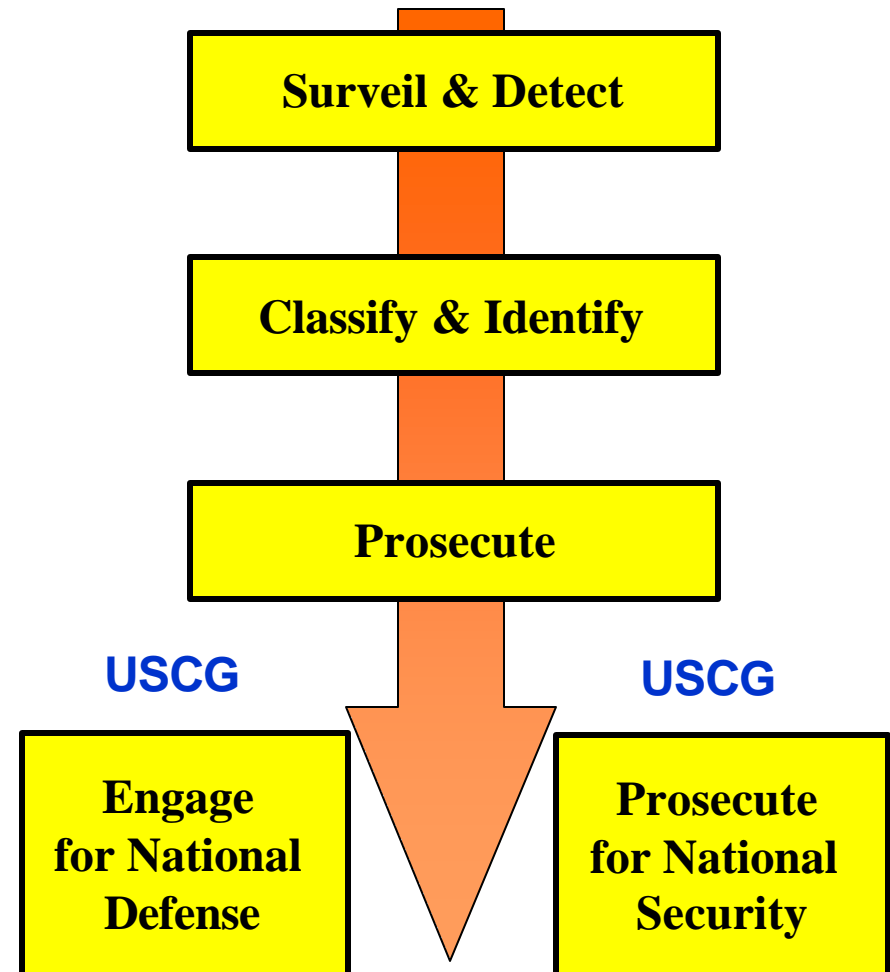
– NATIONAL FLEET
A Joint Navy/Coast Guard Policy Statement
27 February 2001

Maritime Security “Cornerstones”



Prevention and timely response are key to success:

- Active and acceptable presence
- Mission task sequence
- Innovative tactics, techniques & technologies
- Local, regional, national and international cooperation
- Outreach and education



Homeland Security



Post 9/11 Requirements



Deepwater Mission Task Sequence

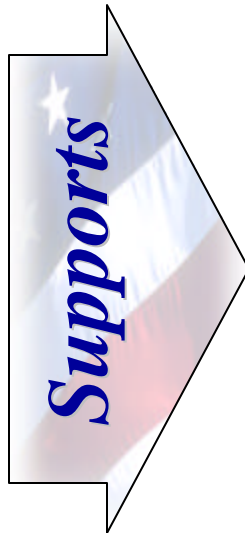
Surveil

Detect

Classify

Identify

Prosecute



Coast Guard Homeland Security Strategy

Build Maritime
Domain Awareness

Ensure Controlled Movement
of High Interest Vessels

Enhance Presence and
Response Capabilities

Protect Critical Infrastructure
and Enhance Force Protection

Increase Domestic and
International Outreach



Executive Order 13228

Detect

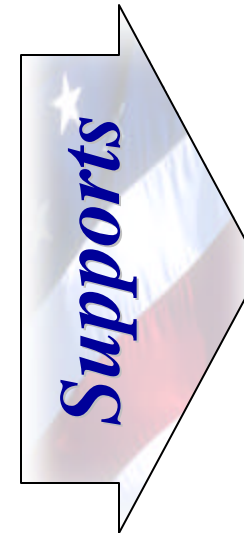
Prepare

Prevent

Protect

Respond

Recover



21st Century Environment

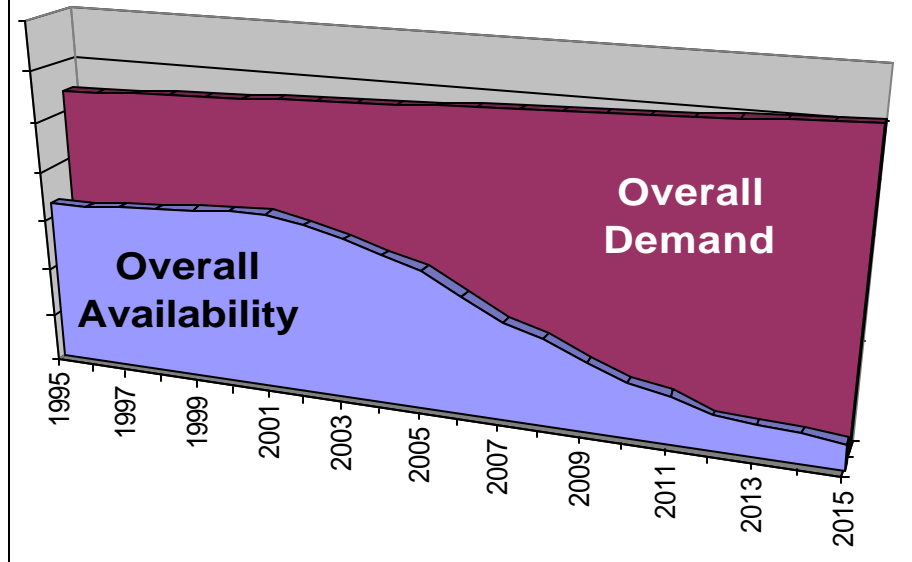


Impact: Studies predict an increase in the nation's reliance on the Coast Guard.

Challenges: Widening Gap

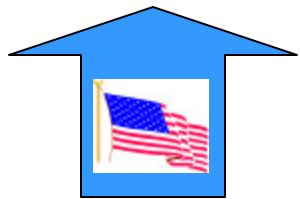


Mission Capability Gap



International Trends:

- Doubling World Population
- Declining Fish Stocks
- Post Cold War Regional Conflicts
- Tripling of International Commerce



Increasing National Demand - the nation's demand for Coast Guard services already exceeds available resources and demand is projected to increase.



Decreasing USCG Capability - the Coast Guard's Deepwater fleets are antiquated and have significant operational limitations.

Legacy Deepwater Assets



1986 - 2005



1982 - 2002

1972 - 1997



1967 - 2008

- 91 Cutters
- 206 Aircraft
- C4ISR Systems/Network
- Logistics Infrastructure



1964 - 2007



1990 - 2005



1983 - 2013



1984 - 2004

Challenge: Aging Deepwater Assets

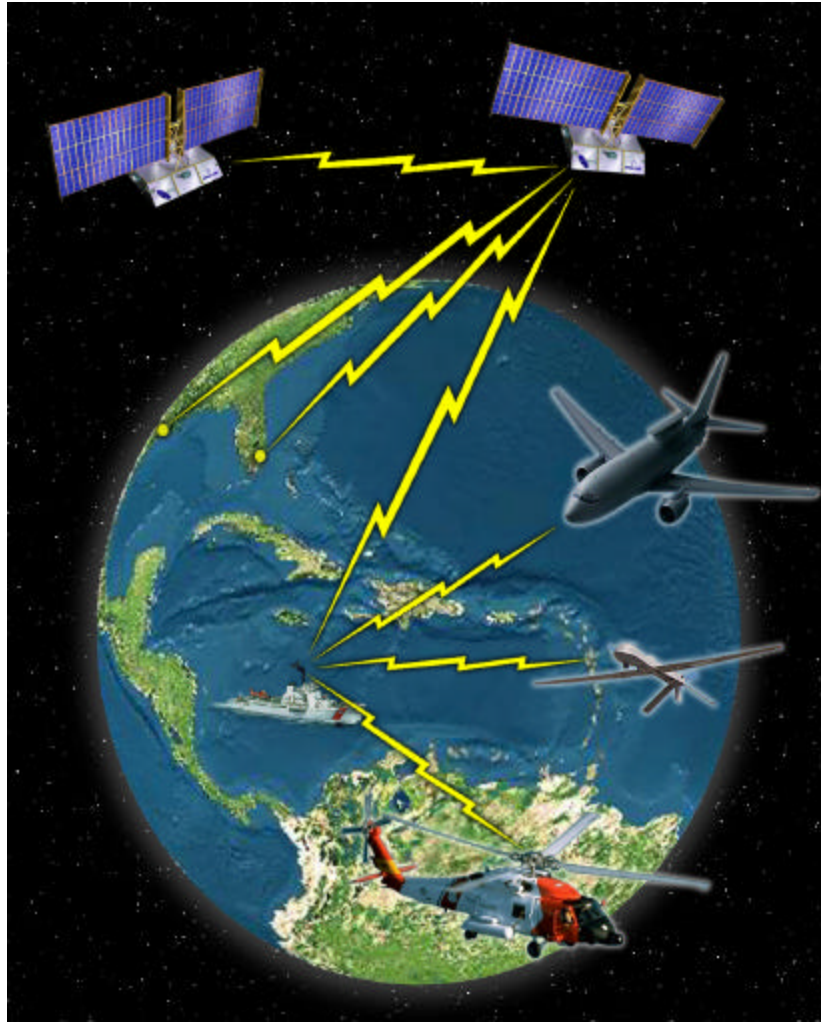


- **Capability Gap** - Mission demands exceed capabilities (e.g. speed, sensors, comms)
- **Technology Gap** - 30+ year old technology hinders effectiveness & drives up costs
- **Logistics Gap** - Maintenance costs increasing while operational availability decreasing



The average age of our Deepwater cutters is 28...The Coast Guard fleet of High and Medium Endurance Cutters is older than 37 of the 39 (naval) fleets worldwide...

Solution: Integrated Deepwater System



Acquisition Strategy:

- Integrated System of Systems
- Focus on Capabilities
Not Assets
- Collaborative Industry
Partnership

Overarching Objective:

- Maximize Operational
Effectiveness while Minimizing
Total Ownership Costs

Advantages of an Innovative Approach



System of Systems Approach

- Mission-based performance acquisition approach
- Performance specifications for assets based on fundamental capabilities needed to optimize mission performance while minimizing total ownership costs
- Overall force multiplier by using a seamless coordinated performance of missions by multiple assets
- Greater management and funding flexibility

Strategic Benefits

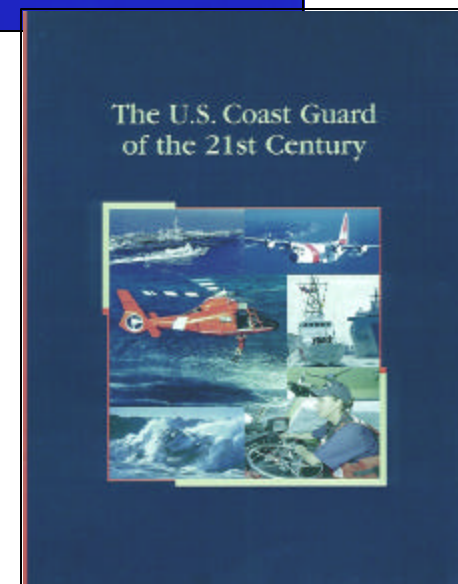
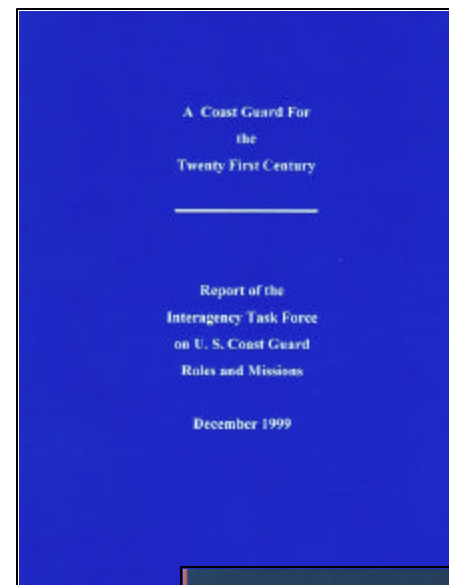
- Interoperability built-in
- Optimum type and number of assets determined
- Office of Federal Procurement Policy endorsement

National Priority/Interagency Task Force



The time is now... the need is real!

- The Coast Guard's *roles and missions* support national policies and objectives that *will endure* into the 21st century.
- The recapitalization of the Coast Guard's Deepwater capability is a *near-term national priority*.
- The Deepwater acquisition project is a sound approach and the Interagency Task Force strongly *endorses its process and timeline*.
- The nation today faces numerous *threats...* a situation *likely to worsen* during the next two decades.



Phase 2 Industry Teams



The Boeing Company

Subcontractors include

- European Aeronautic, Defense and Space (EADS) Construcciones Aeronauticas S.A. (CASA)
- European Aeronautic, Defense and Space (EADS) Eurocopter
- Northrop Grumman Ship Systems Avondale Operations
- John J. McMullen & Associates, Inc.

Integrated Coast Guard Systems

A joint venture consisting of

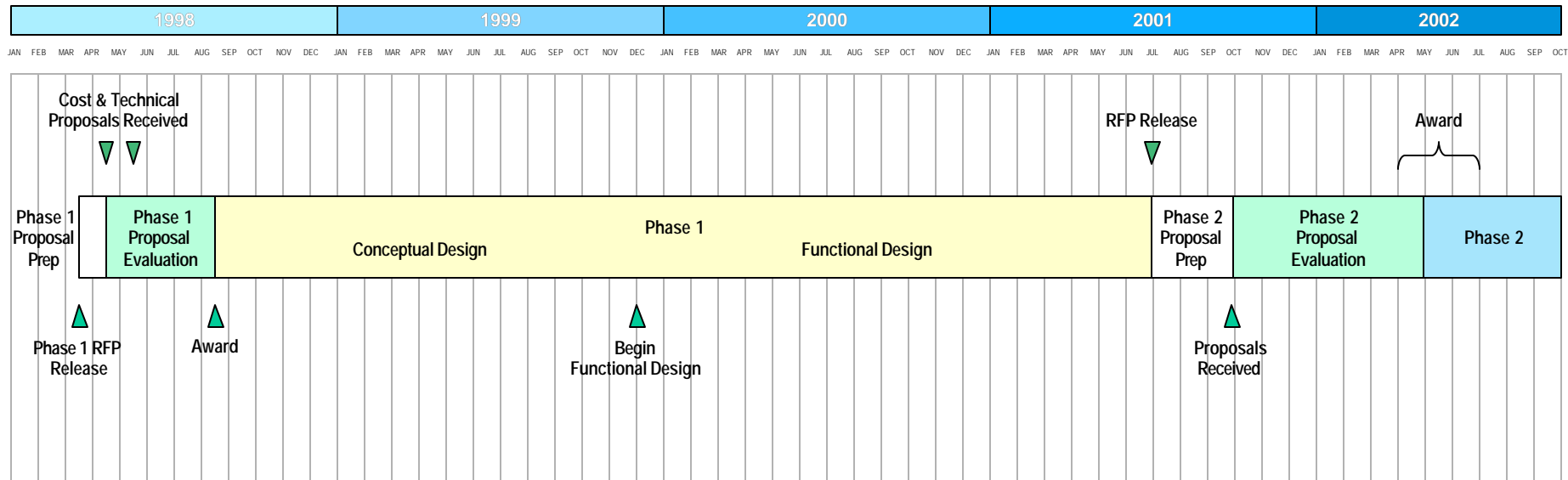
- Lockheed Martin Naval Electronics & Surveillance Systems (NE&SS)- Surface Systems
- Northrop Grumman Ship Systems Ingalls Operations

Maritime Systems Alliance

A joint venture consisting of

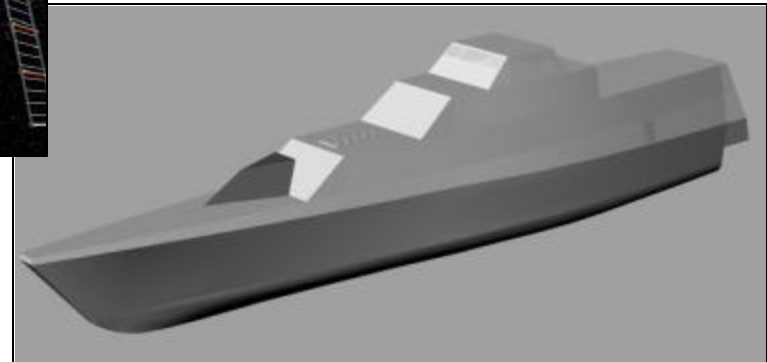
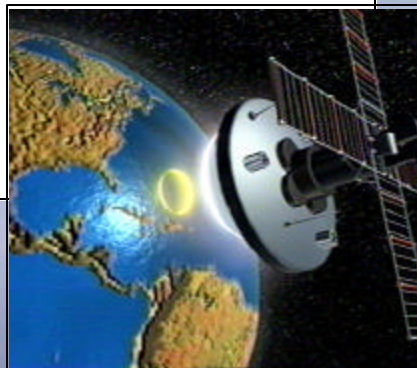
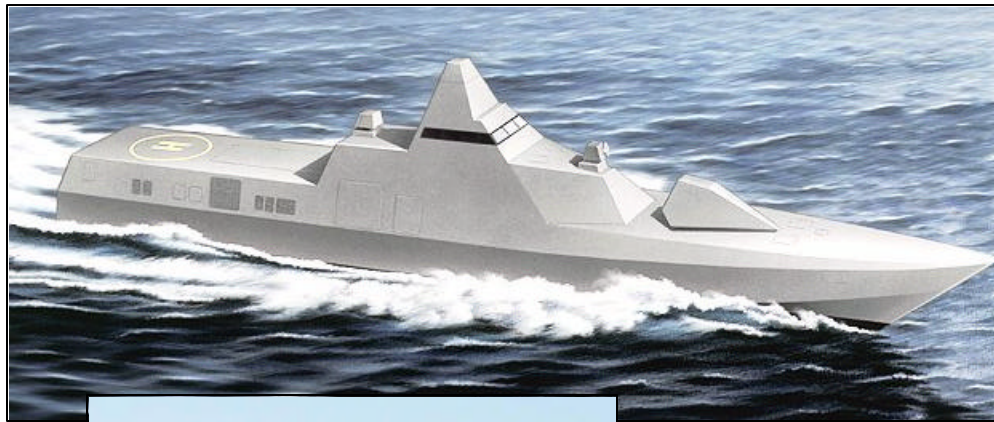
- Science Applications International Corporation
- Raytheon Company
- The Manitowoc Company, Inc

Deepwater Milestones

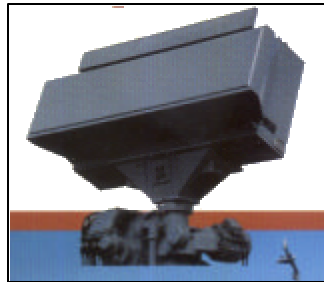


- RFP Released – 29 June 2001
- Proposals Received – 28 September 2001
- Award – 3rd Quarter, Fiscal Year 2002

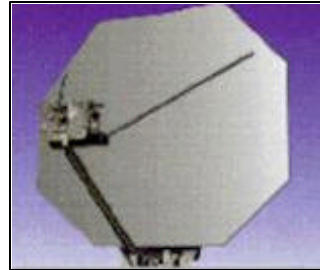
Realm of the Possible



Notional Weapons Suite



Multi Role Radar (MRR)



Air Search Radar/SPQ-9B



ESM



RAM or SeaRam



NULKA



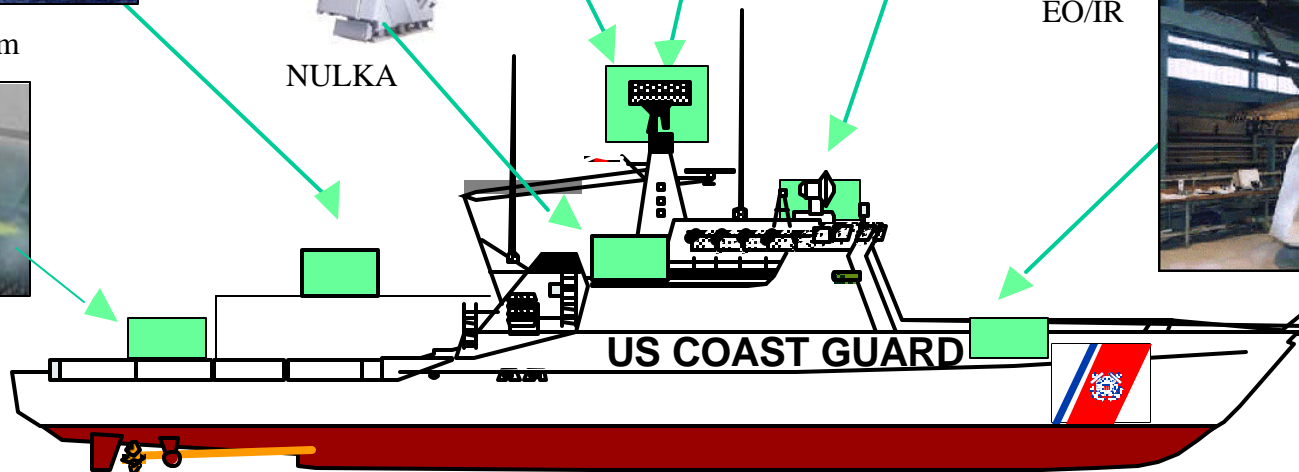
EO/IR



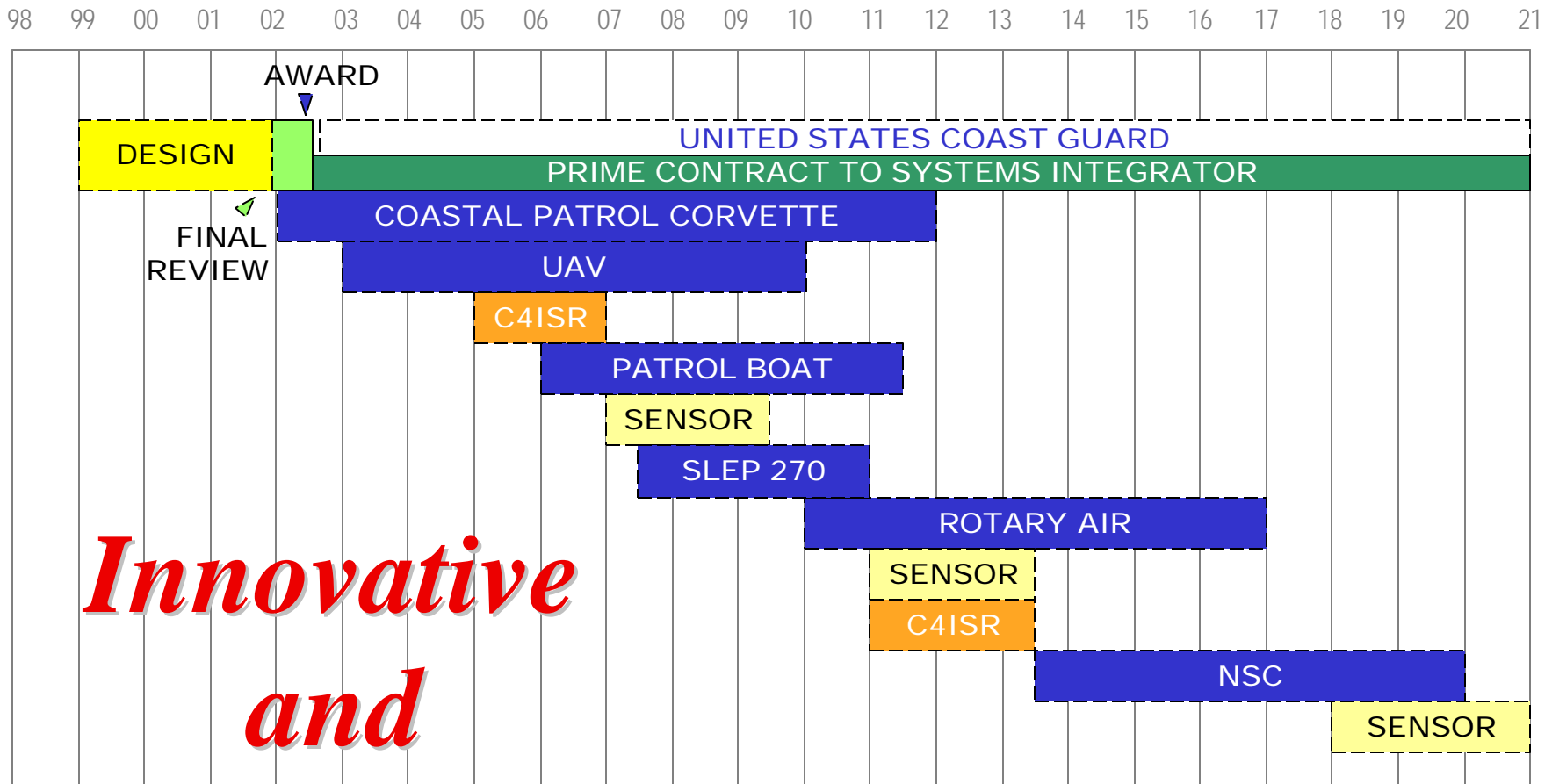
MK-46 30 mm



57 mm



Notional Timeline



*Innovative
and
Flexible*

Why Leverage Deepwater?



- The Integrated Deepwater System will enable the Coast Guard to
 - Maintain credible presence in key maritime regions to deter potential threats to U.S. sovereignty
 - Exercise sea control and projection of law enforcement and naval/maritime power should deterrence fail
- Provides Nation best national security, military, law enforcement, and search & rescue capability for taxpayer's dollar
- Ensures USCG remains best CG in the world; USN remains best Navy in the world.

Today's ship forces are heavily tasked in meeting the current security demands and there is little elasticity left to respond to an emergent crisis in one region without reducing forward presence in another.

2000 QDR Input from Ships Task Force to Modernization Panel

People... Performance... Partnership





“We must make sure that our Coast Guard has got a modern fleet of vessels.”

President George W. Bush
January 25, 2002

Visit us on the web at <http://www.uscg.mil/deepwater>